



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

LAKE ERIE

LEZ444	Mi Waters Of Lake Erie								
Luna Pier	14	1501EST			0	0			Marine Tstm Wind (EG35)
LEZ444	Mi Waters Of Lake Erie								
North Cape	17	2245EST			0	0			Marine Tstm Wind (EG54)
LEZ444	Mi Waters Of Lake Erie								
Luna Pier	30	1422EST			0	0			Marine Tstm Wind (MG37)

LAKE HURON

LHZ422	Inner Saginaw Bay & Sw Of Pt Au Gres To Bay Port Mi								
Bay Port	04	0131EST			0	0			Marine Tstm Wind (MG38)
LHZ421	Outer Saginaw Bay & Sw Of Alabaster To Pt Austin Mi								
Bay Port	04	0131EST			0	0			Marine Tstm Wind (MG38)
LHZ462	Lh Pt Austin To Hbr Beach Mi 5Nm Offshore To Intl Border								
Harbor Beach	09	2006EST			0	0			Marine Tstm Wind (MG35)
LHZ441	Pt Austin To Hbr Beach Mi								
Harbor Beach	09	2006EST			0	0			Marine Tstm Wind (MG35)
LHZ422	Inner Saginaw Bay & Sw Of Pt Au Gres To Bay Port Mi								
Saginaw River Mouth	17	1800EST			0	0			Marine Tstm Wind (EG53)
LHZ462	Lh Pt Austin To Hbr Beach Mi 5Nm Offshore To Intl Border								
Port Austin	17	1830EST			0	0			Marine Tstm Wind (EG55)
LHZ421	Outer Saginaw Bay & Sw Of Alabaster To Pt Austin Mi								
Port Austin	17	1830EST			0	0			Marine Tstm Wind (EG55)
LHZ441	Pt Austin To Hbr Beach Mi								
Port Austin	17	1830EST			0	0			Marine Tstm Wind (EG55)
LHZ422	Inner Saginaw Bay & Sw Of Pt Au Gres To Bay Port Mi								
Bay Port	17	1845EST			0	0			Marine Tstm Wind (EG53)
LHZ421	Outer Saginaw Bay & Sw Of Alabaster To Pt Austin Mi								
Caseville	17	1845EST			0	0			Marine Tstm Wind (EG53)
LHZ442	Hbr Beach To Pt Sanilac Mi								
Harbor Beach	17	1858EST			0	0			Marine Tstm Wind (EG55)
LHZ463	Lh Hbr Beach To Pt Sanilac 5Nm Offshore To Intl Border								
Harbor Beach	17	1858EST			0	0			Marine Tstm Wind (EG55)
LHZ464	Lh Pt Sanilac To Pt Huron 5Nm Offshore To Intl Border								
Lexington	17	1900EST			0	0			Marine Tstm Wind (EG55)
LHZ443	Pt Sanilac To Pt Huron Mi								
Lexington	17	1900EST			0	0			Marine Tstm Wind (EG55)
LHZ421	Outer Saginaw Bay & Sw Of Alabaster To Pt Austin Mi								
Point Au Gres	23	1040EST			0	0	0		Waterspout
Arenac County reported a waterspout on Saginaw Bay near Point Au Gres.									
LHZ421	Outer Saginaw Bay & Sw Of Alabaster To Pt Austin Mi								
Alabaster	23	1207EST			0	0	0		Waterspout
Trained spotter reported a waterspout on Saginaw Bay just offshore from Alabaster									
LHZ422	Inner Saginaw Bay & Sw Of Pt Au Gres To Bay Port Mi								
Point Au Gres	30	1400EST			0	0			Marine Tstm Wind (MG37)
LHZ421	Outer Saginaw Bay & Sw Of Alabaster To Pt Austin Mi								
Point Au Gres	30	1400EST			0	0			Marine Tstm Wind (MG37)



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LAKE HURON

LHZ442	Hbr Beach To Pt Sanilac Mi								
Harbor Beach	30	1422EST			0	0			Marine Tstm Wind (MG36)
LHZ463	Lh Hbr Beach To Pt Sanilac 5Nm Offshore To Intl Border								
Harbor Beach	30	1422EST			0	0			Marine Tstm Wind (MG36)
LHZ462	Lh Pt Austin To Hbr Beach Mi 5Nm Offshore To Intl Border								
Harbor Beach	30	1422EST			0	0			Marine Tstm Wind (MG36)
LHZ441	Pt Austin To Hbr Beach Mi								
Harbor Beach	30	1422EST			0	0			Marine Tstm Wind (MG36)
LHZ464	Lh Pt Sanilac To Pt Huron 5Nm Offshore To Intl Border								
Port Huron	30	1450EST			0	0			Marine Tstm Wind (MG38)
	Gust recorded by Environment Canada observing equipment in Sarnia.								
LHZ443	Pt Sanilac To Pt Huron Mi								
Port Huron	30	1450EST			0	0			Marine Tstm Wind (MG38)
	Gust Recorded by Environment Canada observing equipment in Sarnia.								

LAKE ST CLAIR

LCZ460	Lake St Clair (U.S. Portion)								
New Baltimore	17	2230EST			0	0			Marine Tstm Wind (EG50)
LCZ422	St Clair River								
City Of St. Clair	17	2230EST			0	0			Marine Tstm Wind (EG50)
LCZ423	Detroit River								
Belle Isle	17	2234EST			0	0			Marine Tstm Wind (EG43)
LCZ422	St Clair River								
Port Huron	30	1450EST			0	0			Marine Tstm Wind (MG38)
	Gust recorded by Environment Canada observing equipment in Sarnia.								
LCZ460	Lake St Clair (U.S. Portion)								
Grosse Pointe	30	1455EST			0	0			Marine Tstm Wind (MG38)

MICHIGAN, East

St. Clair County									
1 SW Capac	04	0430EST			0	0	3K		Thunderstorm Wind (EG52)
	A local newspaper article included a picture of a trampoline, that had been anchored into the ground, wrapped around the corner of a home's roof, reportedly shifting the wall by a couple of inches. Trees were also reported blown down. An early morning 4th of July thunderstorm was responsible for the damage. Downburst winds were estimated at around 60 MPH. Gushing rain and pelting hail also left plants ripped to shreds. Property damage was estimated at roughly \$3K.								
Saginaw County									
Saginaw	09	2300EST			0	0	8.5K		Lightning
	A local newspaper reported that a house on Grant caught on fire after being struck by lightning. The second floor bedroom was completely engulfed in flames. The family of 7 escaped without injury. The blaze was blamed for \$8.5K in property damage.								
Monroe County									
Temperance	12	0823EST			0	0	3K		Lightning
	Lightning struck a home under construction, destroying some siding and charring an electrical outlet. Property damage was estimated at roughly \$3K.								



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<u>MICHIGAN, East</u>									
Monroe County									
Samaria	12	1015EST			0	0	3K		Lightning
Lightning struck a shed and started a fire that burned several pieces of furniture stored inside. Property damage was roughly estimated at \$3K.									
Monroe County									
2 S Ottawa Lake	14	1455EST			0	0			Thunderstorm Wind (EG50)
The Toledo broadcast media reported trees blown down.									
Monroe County									
Lambertville	14	1501EST			0	0			Thunderstorm Wind (EG50)
Central Dispatch reported wires down.									
Midland County									
Midland	17	1730EST			0	0	50K		Thunderstorm Wind (EG55)
A trained spotter reported trees blown down in Midland. A local newspaper article also included a picture of a very large 80 foot honey locust tree lying on top of a home. The tree punched through the back sunroom of the home. A neighbor also lost a 50 foot cherry tree due to the thunderstorm winds. Several other large trees were reported blown down across the city of Midland. Midland County was hit particularly hard. Thousands of customers lost power, with most going without power for 3 to 4 days due to the extent of the tree damage across the region. The road commission responded to 24 calls of trees down across roadways. Midland firefighters responded to 50 storm related calls, most involving downed trees and power lines. The most damage in the city occurred from Nelson Street to the downtown area, and in the area of Nakoma Drive and Jefferson Avenue. At least one vehicle was damaged due to fallen debris. Property damage in the area was roughly estimated at around \$50K.									
Saginaw County									
6.5 S Freeland	17	1740EST			0	0	60K		Thunderstorm Wind (EG58)
A local newspaper reported numerous accounts of trees blown down across Thomas, James, and Saginaw Townships. Several homes were damaged along the Geddes and Thomas road areas. One home sustained significant damage and a destroyed garage. Another Thomas Township home's garage wall bowed out. A fallen tree also destroyed a parked vehicle in James Township. No injuries were reported. Total property damage was roughly estimated at \$60K.									
Saginaw County									
St Charles	17	1740EST			0	0			Thunderstorm Wind (EG55)
A local newspaper article included a picture of a power line and a large maple tree blown down and blocking Hosmer Street near Coal Street in St. Charles.									
Saginaw County									
Saginaw Arpt	17	1742EST			0	0			Thunderstorm Wind (MG57)
Saginaw County									
Saginaw	17	1745EST			0	0	106K		Lightning
Delayed entry. Two and half months after the incident, a newspaper article reported that lightning had caused severe damage to a Church bell tower. Lightning hit the brick spire of a Church's 76 year old bell tower, sending 300 to 400 pounds of broken rocks flying throughout the surrounding neighborhood. It will cost the Church \$106K to repair the tower.									
Saginaw County									
2 W Saginaw	17	1745EST			0	0			Thunderstorm Wind (EG52)
A trained spotter reported several 6 inch diameter limbs down.									
Saginaw County									
Merrill	17	1750EST			0	0			Thunderstorm Wind (EG55)
A trained spotter reported several large trees and power lines blown down.									



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<u>MICHIGAN, East</u>									
Bay County									
Bay City	17	1800EST			0	0			Thunderstorm Wind (EG55)
									Central dispatch reported trees blown down in Bay City.
Midland County									
Midland	17	1800EST			0	0	5K		Lightning
									Lightning struck a home, sparking a fire. Property damage was roughly estimated at \$5K.
Saginaw County									
Burt	17	1805EST			0	0			Thunderstorm Wind (EG53)
									A trained spotter reported an 8 inch diameter tree blown down.
Tuscola County									
Fairgrove	17	1815EST			0	0			Thunderstorm Wind (EG55)
									Central dispatch reported multiple trees blown down in Fairgrove.
Tuscola County									
Vassar	17	1815EST			0	0			Thunderstorm Wind (EG55)
									Central dispatch reported trees blown down in Vassar.
Genesee County									
Flushing	17	1818EST			0	0			Thunderstorm Wind (EG56)
									A trained spotter estimated thunderstorm wind gusts of 65 mph.
Genesee County									
Mt Morris	17	1820EST			0	0			Thunderstorm Wind (EG55)
									A trained spotter reported 15 inch diameter trees blown down along I-475 at Saginaw Rd.
Huron County									
Port Austin	17	1830EST			0	0			Thunderstorm Wind (EG57)
									Central dispatch reported multiple trees blown down across M-25 in and around Port Austin.
Lapeer County									
Otter Lake	17	1830EST			0	0			Thunderstorm Wind (EG54)
									A trained spotter reported a 12 inch diameter tree blown down.
Huron County									
Bad Axe	17	1845EST			0	0			Thunderstorm Wind (EG55)
									A trained spotter reported trees blown down and estimated wind gusts of 65 mph.
Huron County									
Caseville	17	1845EST			0	0	25K		Thunderstorm Wind (EG55)
									A trained spotter reported numerous trees blown down. Docks were twisted and part of a decorative wall of bricks along the Pigeon River collapsed. Several homes were damaged. Total damages in this area were roughly estimated at around \$25K. No injuries or deaths were reported.
Huron County									
7 S Bad Axe	17	1850EST			0	0			Thunderstorm Wind (EG58)
									A local newspaper article included pictures of large trees blown down. At least 10 large evergreen trees, over 30 feet tall, were snapped in half. Branches and pieces of tree trunks were thrown across a residents yard. The home, however, was not damaged. No injuries were sustained.
Huron County									
Harbor Beach	17	1858EST			0	0	75K		Thunderstorm Wind (EG85)
									Local newspaper articles reported that the storms left behind a trail of destruction through Harbor Beach, with numerous trees, some very large, ripped from their roots and power lines down through the entire area. The storms left the entire city without power. Many vehicles and structures, including homes, were damaged by fallen debris. Several boats were tossed about and washed ashore on Sand Point. An NWS survey confirmed that this area was struck by a microburst with winds up to 100 MPH. Remarkably, No injuries or deaths were reported. Total property damage in Harbor Beach was estimated at \$75K.



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<u>MICHIGAN, East</u>									
Sanilac County									
Forestville	17	1900EST			0	0			Thunderstorm Wind (EG55)
Central dispatch reported multiple trees blown down in Forestville.									
Sanilac County									
Lexington	17	1900EST			0	0			Thunderstorm Wind (EG55)
Central dispatch reported several trees and power lines blown down.									
Huron County									
Port Hope to Harbor Beach	17	1905EST 1915EST			0	0			Thunderstorm Wind (EG85)
An NWS survey confirmed trees blown down in a widespread area from Port Hope to Harbor Beach. The survey concluded that the damage was consistent with a microburst producing wind gusts estimated at 80 to 100 mph.									
Sanilac County									
4 E Sandusky	17	1915EST			0	0	15K		Thunderstorm Wind (EG55)
A local newspaper article included a picture of a large tree blown down on top of a vehicle parked next to a home. A camper and pickup truck were also damaged by the fallen tree. Property damage is roughly estimated at \$15K. No injuries were reported.									
Huron County									
Harbor Beach	17	1924EST			0	0	200K		Lightning
A local newspaper article included a photograph of a home burned down. The fire was sparked by an electrical line blown down onto the home by thunderstorm winds. The couple was able to escape the home without injury. The value of the home itself was \$150K, not including its contents. The couple lost all of their belongings in the fire. Total damages were roughly estimated at \$200K.									
Saginaw County									
Merrill	17	1935EST			0	0			Hail(1.75)
The public reported golf ball size hail in Merrill.									
Shiawassee County									
Countywide	17	2115EST			0	0			Thunderstorm Wind (EG55)
Central dispatch reported trees blown down across the county.									
Genesee County									
3 S Flint	17	2144EST			0	0			Thunderstorm Wind (EG53)
Local firefighter reported a telephone pole blown down.									
Oakland County									
Highland	17	2145EST			0	0			Thunderstorm Wind (EG53)
Central dispatch reported a tree blown down.									
Livingston County									
Howell	17	2150EST			0	0	8K		Thunderstorm Wind (EG55)
A local newspaper reported several trees blown down in Howell and included a picture of a work van pinned beneath the trunk of a large tree on Barnard Street. Total damage to the vehicle was roughly estimated at \$8K.									
Oakland County									
White Lake	17	2150EST			0	0			Thunderstorm Wind (EG53)
Law enforcement reported a large tree limb down.									
Oakland County									
Rochester Hills	17	2151EST			0	0			Thunderstorm Wind (EG53)
Law enforcement reported a tree blown down.									
Macomb County									
Disco	17	2152EST			0	0			Thunderstorm Wind (EG53)
Broadcast media reported a tree blown down.									



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<u>MICHIGAN, East</u>									
Oakland County									
Commerce	17	2201EST			0	0			Thunderstorm Wind (EG53)
Law enforcement reported a tree blown down.									
Washtenaw County									
Dexter	17	2215EST			0	0			Thunderstorm Wind (EG52)
A local newspaper article reported that 3 trees that had blown down were removed from area roadways and seven others were attended to as well.									
Washtenaw County									
6 ESE Dexter	17	2225EST			0	0	15K		Thunderstorm Wind (EG52)
A local newspaper article reported a tree blown down across Newport Road near M-14 and another larger tree, about 3 feet in diameter, blown down on part of a house being renovated. No injuries were reported. Property damage was roughly estimated at \$15K.									
Lenawee County									
Tecumseh	17	2230EST			0	0			Thunderstorm Wind (EG53)
Central dispatch reported several trees blown down.									
St. Clair County									
St Clair	17	2230EST			0	0			Thunderstorm Wind (EG52)
Trained spotter reported an 8 inch diameter tree limb down.									
Washtenaw County									
4.5 SE Dexter	17	2230EST			0	0	20K		Thunderstorm Wind (EG52)
A local newspaper article reported that the top 20 feet of a tree was blown down, crashing through the roof and into the kitchen of a home on Dolph Drive near Jackson Road. The residents of the home narrowly escaped injury. Property damage was roughly estimated at \$20K.									
Lenawee County									
Rollin	17	2235EST			0	0			Thunderstorm Wind (EG53)
Central dispatch reported several trees blown down.									
Monroe County									
3 NE Carleton	17	2245EST			0	0			Thunderstorm Wind (EG54)
Trained spotter reported 20 inch diameter trees blown down.									
Wayne County									
1.5 NE Highland Park	17	2301EST			1	1			Lightning
A couple was struck by lightning after taking shelter from the rain under a tree at 2301 EST in Krainz Park near East Hildale and Justine on Detroit's east side. The pair was taken to Detroit Receiving Hospital, where the 44 year old woman was later pronounced dead. The 2nd person, a 46 year old male, survived but was initially in temporary serious condition at the hospital. F44UT									

The July 17th severe weather event would eventually go down as the largest and most destructive of the 2006 severe weather season. Intense thunderstorms fired along and ahead of a cold front working down from the northern Great Lakes and eventually developed into a large MCS by mid evening. The Tri Cities and thumb regions were especially hard hit during this event. Several microbursts actually produced 100 MPH wind gusts across northeast Huron county, causing quite a bit of damage. The outflow created from the storms across the north actually held together long enough to spread south. There were several reports of trees blown down in areas south of M-59, although the damage was minimal when compared to the destruction across the northern parts of the area. Very few reports of hail were received, however, golf ball size hail was reported in Saginaw County. This event caused one death and one injury in Wayne County. A couple was struck by lightning after seeking refuge under a tree.



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MICHIGAN, East

Oakland County

White Lake	18	0100EST			0	0	5K		Lightning
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Lightning struck a home and melted wires in the ceiling that started the insulation and wood on fire. The local fire chief estimated damages at \$5K.

Genesee County

1 SE Linden	27	2045EST			0	0			Thunderstorm Wind (EG52)
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NWS Employee reported a tree blown down between Linden and Fenton

Livingston County

5 NNW Howell	27	2048EST			0	0			Thunderstorm Wind (EG52)
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Road Commission reported a tree blown down.

Genesee County

Linden	27	2050EST			0	0			Thunderstorm Wind (EG52)
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NWS employee reported a tree blown down.

Livingston County

4 N Howell	27	2050EST			0	0			Thunderstorm Wind (EG52)
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Road Commission reported a tree blown down.

Livingston County

6 NNE Howell	27	2052EST			0	0			Thunderstorm Wind (EG52)
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Road Commission reported a tree blown down.

**MIZ047>049-053>055-
060>063-068>070-
075>076-082>083**

Midland - Bay - Huron - Saginaw - Tuscola - Sanilac - Shiawassee - Genesee - Lapeer - St. Clair - Livingston - Oakland - Macomb - Washtenaw - Wayne - Lenawee - Monroe

29	1200EST			0	25				Heat
31	2359EST								

This 2006 heat wave delivered the hottest weather the region had experienced in at least 4 years. A 5 day stretch of maximum temperatures at or above 90 degrees began on Saturday, July 29th. A blanket of especially high heat and oppressive humidity settled over the area on Monday, July 31st, and remained relentless through Wednesday, August 2nd. Temperatures, on the 31st, soared above 90 by noon with heat indices over 100 degrees. Heat indices averaged between 105 and 110 degrees through the entire afternoon. Detroit topped out at 96 and set a new high temperature record for July 31st, breaking the previous record of 95 set in 1955. Little relief was felt Monday evening with temperatures not dropping below 90 until 1900 EST. Most significantly, Detroit Metro tied the all time record for the warmest minimum temperature, for any date, when it failed to record a temperature below 80 degrees on July 31st. This had happened only 3 other times in the previous 136 years of record keeping, and this was the first time in 64 years that it had happened again. The major power companies in the area reported an all-time record customer demand for power from 1500 to 1600 EDT on the 31st. Remarkably, very few heat related illnesses occurred during the event. Newspaper articles revealed an extremely high level of awareness and preparedness from the communities across southeast lower Michigan. A large number of cooling centers were made available to those in need as folks reportedly heeded the warnings and took extra precaution. Although area hospitals reported some increase due to heat related illnesses, most were mild and due to heat exhaustion and dehydration. Four cases of heatstroke were confirmed in Wayne and Macomb Counties, 2 on the 30th and 2 on the 31st. No heat related deaths were reported.

Sanilac County

1.5 SE New Greenleaf	29	1300EST			0	0	8K		Thunderstorm Wind (EG56)
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A local newspaper included pictures of several small trees uprooted at a residence along Cleland Road in northwest Sanilac County. Two barn roofs also sustained some damage. A strong downburst, associated with a pulse severe thunderstorm, generated wind gusts estimated at 65 MPH in a localized area. Property damage was estimated by owner at around \$8K.



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<u>MICHIGAN, East</u>									
Midland County									
3 NW Midland	30	1230EST			0	0			Thunderstorm Wind (EG52)
			Central dispatch reported a tree and power lines blown down.						
Shiawassee County									
6 S Owosso	30	1243EST			0	0			Thunderstorm Wind (EG52)
			Central dispatch reported trees blown down.						
Shiawassee County									
4 NE Corunna	30	1245EST			0	0			Thunderstorm Wind (EG52)
			Central dispatch reported a tree blown down.						
Livingston County									
2 NE Fowlerville	30	1259EST			0	0			Thunderstorm Wind (EG52)
			Central dispatch reported a tree blown down.						
Livingston County									
1 E Parkers Corners	30	1305EST			0	0			Thunderstorm Wind (EG52)
			Central dispatch reported a tree blown down.						
Genesee County									
Flushing	30	1310EST			0	0			Thunderstorm Wind (EG55)
			Trained spotter reported 30 trees blown down.						
Livingston County									
5 ENE Oak Grove	30	1310EST			0	0			Thunderstorm Wind (EG52)
			Central dispatch reported a tree blown down.						
Livingston County									
4 E Parkers Corners	30	1310EST			0	0			Thunderstorm Wind (EG52)
			Central dispatch reported a tree blown down.						
Genesee County									
2 S Mt Morris	30	1315EST			0	0			Thunderstorm Wind (EG52)
			Trained spotter reported a tree blown down.						
Genesee County									
Mt Morris	30	1315EST			0	0			Thunderstorm Wind (EG52)
			Trained spotter reported a 12 inch diameter tree blown down.						
Genesee County									
3 SE Swartz Creek	30	1315EST			0	0			Thunderstorm Wind (EG52)
			Trained spotter reported a tree blown down.						
Livingston County									
5 N Brighton	30	1318EST			0	0			Thunderstorm Wind (EG52)
			Central dispatch reported a tree blown down.						
Tuscola County									
3 E Colling	30	1354EST			0	0			Thunderstorm Wind (EG52)
			Central dispatch reported a tree blown down.						
St. Clair County									
4 NW Port Huron	30	1445EST			0	0			Thunderstorm Wind (EG50)
			Trained spotter reported large limbs down near Port Huron.						

A large complex of thunderstorms, originating in Wisconsin during the morning of the 30th, moved across the region during the afternoon. These storms occurred during a heat wave with an unstable airmass in place. The main action occurred as damaging wind gusts on the leading bow-shaped edge of the thunderstorm complex, occurring primarily across the central portions of southeast lower Michigan.